

Name _____

Date _____

Period _____

Worksheet - Cell Division and Mitosis**Why is cell division important?***Identify 3 reasons why cell division is important.*

1. _____
2. _____
3. _____

The Cell Cycle*Summarize information about interphase in eukaryotic cells in the following paragraph.*

Interphase is the part of the cell cycle. During interphase, cells _____ and _____ . During interphase, cells that are still dividing copy their _____ and prepare for _____. Cells no longer dividing are _____.

Mitosis*Sequence the steps of mitosis, and write a short description of what takes place in each phase.*

1. _____

2. _____

3. _____

4. _____

Compare mitosis in animals and plants. State if each feature exists on page in plant cells, animal cells, or both.

<u>Feature</u>	<u>Cell Type</u>
Centrioles	
Spindle fibers	
Cell plate	
Cell wall	

Organize important concepts about mitosis.

1. Mitosis is the division of a _____.
2. Mitosis produces two new nuclei that are identical both to _____ and to _____.
3. A nucleus with 46 chromosomes that undergoes mitosis will produce nuclei, each with _____ chromosomes.

Asexual Reproduction

Identify the 3 forms of asexual reproduction described below.

- _____ the method by which bacteria reproduce.
- _____ new organism growing from body of the parent.
- _____ to regrow body parts that are lost or damaged.

Connection to Reality

A strawberry farmer wants to increase her crop without spending large amounts of money for new seeds. How can she take advantage of asexual reproduction to increase her crop?
